

Claims

5 1. Method of production of polysilicate binder by interaction while mixing between sodium and/or potassium silicate aqueous solution with silicate module from 2.6 to 3.7 and density from 1.30 to 1.46 g/cm³ and from 0.5 to 3.0 percent by weight lithium hydroxide. Then amorphous silicon dioxide with specific surface from 175 to 380 m²/g in the amount from 0.2 to 2.0 percent by weight on conversion to 10 binder is added into the product of interaction under higher rate of mixing.

2. Method of production of polysilicate binder of claim 1, where silico-organic compound is added simultaneously with amorphous silicon dioxide at the stage of its addition.

15 3. Polysilicate binder for adhesives and coatings produced by one of methods of claims 1-2.

4. Adhesive composition for adhesives and coatings comprising silicate binder and inorganic filler, where adhesive composition comprises polysilicate binder as a silicate binder, polysilicate binder produced by one of methods of claims 1-2, with the following component ratio (in percent by weight):

20 - Above mentioned polysilicate binder -25-49
- Inorganic filler -51-75

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